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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,126	06/27/2003	Uwe Krueger	34874-162 UTIL	6692
	7590 09/15/2009 IN, COHN, FERRIS, GLOVSKY & POPEO, P.C.		EXAMINER	
ONE FINANCIAL CENTER BOSTON, MA 02111			KANG, INSUN	
BOSTON, MA	MA 02111		ART UNIT	PAPER NUMBER
			2193	
			MAIL DATE	DELIVERY MODE
			09/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/609,126	KRUEGER, UWE
Office Action Summary	Examiner	Art Unit
	INSUN KANG	2193
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>01</u> . 2a) This action is FINAL . 2b) This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1,4-9,12-14 and 16 is/are pending in 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,4-9,12-14 and 16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
9)⊠ The specification is objected to by the Examin	nor	
10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre- 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

1. This action is responding to the RCE amendment filed on 7/1/2009.

2. Claims 1, 4-9, 12-14, and 16 are pending in the application.

Specification

3. The computer program listings in the specification exceed 300 lines (up to 72 characters per line) and therefore, must be submitted on a compact disc in compliance with § 1.52(e). A compact disc containing such a computer program listing is to be referred to as a "computer program listing appendix." The specification must include a reference to the "computer program listing appendix" at the location indicated in § 1.77(b)(5).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 4-9, 12-14, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang et al. ("A General Purpose Virtual Collaboration Room," IEEE, pages 1-10, 10/1999) hereafter "Huang" in view of Yang et al. ("Transaction Management in Collaborative Virtual Environment," 7/26/1999), hereafter Yang, Pirri et al. ("A Java applet-based virtual environment as a usable interface to distributed services and collaborative applications on the Internet," IEEE, 6/1999) hereafter Pirri.

Per claim 1:

Huang discloses:

-a virtual object space providing access to a plurality of objects, each object having a set of functionality and being identifiable by a unique identifier provided by the virtual object space (i.e. page 2, right col., paragraph 2) and providing generic object functionality for the plurality of objects (i.e. page 2, right col., paragraph 1) including an associations and transactions functionality for relating objects and interaction between objects (i.e. page 3, section 2. An overview of the VCR, first paragraph, lines 1-7; page 2, right col., paragraph 2); a distribution functionality for locking, flushing, and copying of the virtual object space (i.e. page 9, left col., lines 1-20); and persistency functionality for maintaining persistency of the objects (i.e. page 5, right col., section 3.2 Object manipulation, paragraph 4).

Huang does not explicitly teach the associations and transactions functionality configured to provide transactions using a two-phase commit to handle different memory copies of object states of the plurality of objects. However, Yang teaches such transactions using a two-phase commit in a virtual collaboration environment was known in the pertinent art, at the time applicant's invention was made, to ensure information integrity across distributed data sources(i.e. section 3.1 Data Management, fifth paragraph). It would have been obvious for one having ordinary skill in the art to modify Huang's disclosed system to incorporate the teachings of Yang. The modification would be obvious because one having ordinary skill in the art would be motivated to ensure successful transaction updates in a distributed database environment.

Huang and Yang do not explicitly teach a first interface for applications using the plurality of objects and a second interface for service deploying the plurality of objects.

However, Pirri teaches proving an interface to distributed internet applications and services in a virtual collaboration environment was known in the pertinent art, at the time applicant's invention was made, to enable applications to use objects in the virtual space and distribute the objects (i.e. page 859, left col., second paragraph). It would have been obvious for one having ordinary skill in the art to modify Huang and Yang's disclosed system to incorporate the teachings of Pirri. The modification would be obvious because one having ordinary skill in the art would be motivated to allow distributed applications to access the virtual room in Huang and enable services to deploy the virtual objects.

Pirri further discloses the service providing an adapter to map the unique identifier to the plurality of objects and to objects internal to the service (i.e. page 859, left col., second paragraph; 860, right col., fourth par.).

Huang further discloses: the access being a virtual access provided using the unique identifier without physically storing the plurality of objects at the virtual object space (i.e. page 2, right col., paragraph 2); and a visualization framework for visualizing the plurality of objects independently of an application implementing the object, each object being visualized using the object's unique identifier and according to the object's corresponding set of functionality (i.e. Fig. 1; page 6, right col., second paragraph).

Per claim 4:

The rejection of claim 1 is incorporated, and further, Huang teaches:

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-framework services providing common event handling of the plurality of objects(i.e. page 5, left

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col., lines 19-22).

Per claim 5:

This is another framework version of claim 1, respectively, and is rejected for the same reasons

set forth in connection with the rejection of claim 1.

Huang further discloses a user interface for receiving input from a user relating to a

desired arrangement of one or more of the plurality of objects (i.e. Fig. 1; page 3, left col.,

section 2. An Overview of the VCR, first paragraph; lines 11-13) and a visualization framework

for visualizing objects according to the desired arrangement, each object being visualized using

the object's unique identifier independently of an application implementing the object (i.e. Fig. 1;

page 6, right col., second paragraph).

Per claim 6:

Huang further teaches:

- wherein the user interface further includes allowing a user to browse the ;plurality of objects

independent of one or more applications implementing the objects (i.e. Fig. 1; page 3, left col.,

second paragraph, lines 1-6).

Per claim 7:

The rejection of claim 5 is incorporated, and further, Huang teaches:

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- the desired arrangement is hierarchical(i.e. page 3, section 2. An overview of the VCR, first

paragraph, lines 9-11).

Per claim 8:

The rejection of claim 5 is incorporated, and further, Huang teaches:

- the visualization framework includes an object viewer(i.e. page 4, paragraph 2, lines 1-5, 13-

19);

Per claim 13:

The rejection of claim 1 is incorporated, and further, Huang teaches:

- providing a portlet to access the generic object functionality to visualize the structure of the

plurality of objects(i.e. Fig 1 in page 4).

Per claims 9, 12, and 14, they are the method versions of claims 1, 4, 13 respectively, and

are rejected for the same reasons set forth in connection with the rejection of claims 1, 4, and 13

above.

Per claim 16:

Pirri further discloses:

-implementing the plurality of objects to include the first interface accessible by the

framework and the second interface accessible by a service acting as an adapter between the

framework and an application separate from the framework (i.e. page 859, left col., second

paragraph).

Response to Arguments

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6. Applicant's arguments with respect to claims 1, 4-9, 12-14, and 16 have been considered

but are moot in view of the new ground(s) of rejection.

Response to Amendment

7. Per claim 1, in line 13, "a_service" needs to be corrected to "a service."

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to INSUN KANG whose telephone number is (571)272-3724. The

examiner can normally be reached on M-F 8:30-5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lewis A. Bullock, Jr. can be reached on 571-272-3759. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300. Information

regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from

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/Insun Kang/

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